

IN THE CLAIMS

- (1) Claim 1: (cancelled)
- (2) Claim 2: (cancelled)
- (3) Claim 3 (cancelled)
- (4) Claim 4 (cancelled)
- (5) Claim 5 (cancelled)
- (6) Claim 6 (cancelled)
- (7) Claim 7 (original) An electron source comprising:
 - a cold cathode;
 - an evacuated vacuum envelope enclosing the cold cathode;
 - circuitry for creating an electric field sufficient to cause an electron beam to be emitted from the cold cathode; and
 - a window in the evacuated vacuum envelope to permit passage of the electron beam externally from the envelope.
- (8) Claim 8 (original) A method for operating an electron source, comprising the step of activating an electric field to cause an emission of an electron beam from a cold cathode within an evacuated envelope in a manner so that the electron beam passes externally from the envelope through a window in the envelope.
- (9) Claim 9 (original) The method as recited in claim 8, further comprising the step of positioning an object relative to the electron source so that the electron beam emitted externally from the electron source irradiates the object, wherein the object is external to the evacuated envelope..

Respectfully submitted,

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